IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A processing apparatus, comprising:

a transfer chamber;

a plurality of processing chambers for processing therein a substrate to be processed, the processing chambers being coupled to the transfer chamber;

a number of electrostatic chucks which are provided in the processing chambers, to electrostatically adsorb the substrate to be processed thereto;

a transfer mechanism installed in the transfer chamber to transfer the substrate to be processed between the processing chambers and the transfer chamber; and

a monatomic nitrogen atom supply unit for supplying dissociated monatomic nitrogen atoms into the processing chambers.

Claim 2 (Original): A processing apparatus, comprising:

a transfer chamber;

a first processing chamber coupled to the transfer chamber, the first processing chamber performing therein a first process on a substrate to be processed;

a second processing chamber coupled to the transfer chamber, the second processing chamber performing therein a second process on the substrate to be processed;

a transfer mechanism installed in the transfer chamber for sequentially transferring the substrate to be processed into the first and second processing chamber;

electrostatic chucks provided in the first and the second processing chambers, the electrostatic chucks electrostatically adsorbing thereto the substrate to be processed; and

a monatomic nitrogen atom supply unit for supplying dissociated monatomic nitrogen atoms into the first and second processing chamber.

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Claim 3 (Original): The processing apparatus of claim 1, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms to a close

proximity of the electrostatic chucks.

Claim 4 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms to a close

proximity of the electrostatic chucks.

Claim 5 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms into the transfer

chamber.

Claim 6 (Original): The processing apparatus of claim 2, further comprising a

controller for controlling a supply timing of the dissociated monatomic nitrogen atoms from

the monatomic nitrogen atom supply unit.

Claim 7 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit includes a pipe communicating with the processing chambers, an

N₂ gas supply source for supplying an N₂ gas through the pipe, and an energy supply unit for

applying energy to the N2 gas in the pipe or in the processing chambers to convert the N2 gas

into the dissociated monatomic nitrogen atoms.

Claim 8 (Original): The processing apparatus of claim 6, wherein the energy supply

unit has an ultraviolet irradiation unit for irradiating ultraviolet ray to the N₂ gas.

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Claim 9 (Original): The processing apparatus of claim 6, wherein the pipe has a

dielectric portion, and the energy supply unit has an induction coil wound around the

dielectric portion and a high frequency power supply for applying a high frequency to the

induction coil.

Claim 10 (Original): The processing apparatus of claims 6, wherein the energy

supply unit applies energy which is higher than the dissociation energy of the N₂ gas and

lower than the ionization energy of the N₂ gas, to the N₂ gas.

Claim 11 (Currently Amended): A processing method employing a processing

apparatus, which includes a transfer chamber, a plurality of processing chambers coupled to

the transfer chamber, to process therein a target substrate, and a number of electrostatic

chucks provided in the processing chambers to electrostatically adsorb the target substrate

thereto, comprising the steps of:

transferring the target substrate from the transfer chamber into one of the processing

chambers by using a transfer mechanism;

placing the target substrate on an electrostatic chuck displaced in said one processing

chamber;

applying a direct current to an electrode embedded in the electrostatic chuck to

electrostatically absorb adsorb the target substrate to the electrostatic chuck;

processing the target substrate in said one processing chamber, to thereby obtain a

processed substrate;

terminating the application of the direct current to the electrostatic chuck;

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supplying dissociated monatomic nitrogen atoms into said one processing chamber to remove charge on the electrostatic chuck; and

transferring the processed substrate into the transfer chamber using the transfer mechanism.

Claim 12 (Original): The processing method of claim 11, wherein the dissociated monatomic nitrogen atoms are supplied near the electrostatic chucks.

Claim 13 (Original): A processing method using a processing apparatus, which includes a transfer chamber, a first processing chamber coupled to the transfer chamber, for performing a first process on a target substrate therein, a second processing chamber coupled to the transfer chamber for performing a second process on the target substrate therein, and a first and second electrostatic chucks provided in the first and second processing chambers, respectively, to electrostatically adsorb the substrate thereto, comprising the steps of:

transferring the target substrate from the transfer chamber into the first processing chamber using a transfer mechanism;

placing the target substrate on the first electrostatic chuck in the first processing chamber;

applying a direct current to an electrode of the first electrostatic chuck to electrostatically adsorb the target substrate to the first electrostatic chuck;

performing a first process on the target substrate in the first processing chamber to thereby obtain a processed substrate;

terminating the application of the direct current to the first electrostatic chuck; supplying dissociated monatomic nitrogen atoms into the first processing chamber to remove charge on the first electrostatic chuck;

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transferring the processed substrate into the transfer chamber using the transfer

mechanism;

transferring the processed substrate from the transfer chamber into the second

processing chamber;

placing the processed substrate on the second electrostatic chuck in the second

processing chamber;

applying the direct current to an electrode of the second electrostatic chuck to

electrostatically adsorb the processed substrate to the second electrostatic chuck; and

performing a second process on the processed substrate in the processed second

processing chamber.

Claim 14 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are supplied near the electrostatic chucks.

Claim 15 (Original): The processing method of claim 13, further comprising the step

of supplying the dissociated monatomic nitrogen atoms into the transfer chamber.

Claim 16 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are produced by irradiating ultraviolet ray onto N₂ gas.

Claim 17 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are produced by applying energy, generated during application of

a high frequency power to an induction coil, onto N₂ gas.

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Claim 18 (Currently Amended): The processing method of claim 13, wherein the dissociated monatomic nitrogen atoms are produced by applying energy, higher than dissociation energy of N₂ and lower than ionization energy of N₂, to the N₂ gas. 12. The

processing method of claim 10, wherein the dissociated monatomic nitrogen atoms are

supplied near the electrostatic chucks.

Claim 19 (Original): A processing apparatus, comprising:

a processing chamber for processing therein a substrate to be processed;

an electrostatic chuck installed in the processing chamber, for adsorbing the substrate to be process thereto; and

a monatomic N atom supply unit for supplying dissociated monoatomic N atoms into the processing chamber.

Claim 20 (Currently Amended): A processing method employing a processing apparatus, which includes a processing chamber for processing a substrate to be processed and an electrostatic chuck for adsorbing the substrate to be processed thereto, comprising the steps of:

mounting the substrate to be processed on the electrostatic chuck disposed in the processing chamber; and

supplying dissociated monatomic N atoms into the processing chamber.